

Message Text

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46

ORIGIN PM-04

INFO OCT-01 ARA-06 ISO-00 EB-07 CIAE-00 INR-07 NSAE-00

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FM SECSTATE WASHDC

TO AMEMBASSY LIMA

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HQ USAF /XOXXI/

AFSC ANDREWS AFB /FA/

AFGL HANSCOM FLD

4950TWG WPAFB OH /DOMM/

C O N F I D E N T I A L STATE 218534

E.O. 11652:ADS-DECLASSIFY UPON COMPLETION OF NEGOTIATIONS

TAGS: MARR, PE, US

SUBJECT: REQUEST FOR OPERATING RIGHTS IN SUPPORT OF
PROJECTS 1227/2029

1. REQUEST EMBASSY SEEK APPROVAL FROM GOP FOR THE PROPOSED
FLIGHT OPERATIONS DETAILED BELOW. THESE OPERATIONS ARE IN
SUPPORT OF THE AIR FORCE AVIONICS LABORATORY (AFAL)
PROJECT 1227/2029, WHICH IS AN EXTENSIVE PROJECT TO
DEVELOP EXPERIMENTAL SATELLITE COMMUNICATIONS HARDWARE.
THE PROJECT CONSISTS OF A SERIES OF TESTS TO EVALUATE THE
PERFORMANCE OF SATELLITE COMMUNICATIONS EQUIPMENT UNDER
NORMAL, AS WELL AS DISTURBED PROPAGATION CONDITIONS, IN
ORDER TO ASSESS THE RELIABILITY AND UTILITY OF SATELLITE
COMMUNICATIONS. THE TESTS WILL CONSIST OF RADIO TRANS-
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MISSIONS THROUGH THE LINCOLN EXPERIMENTAL SATELLITES

(LES 8 AND 9 FROM AIRBORNE TEST AIRCRAFT AND PERUVIAN GROUND STATIONS. ONE OF THE DISTURBED PROPAGATION CONDITIONS BEING STUDIED IS THE DISTORTION OF RADIO WAVES AS THEY PROPAGATE THROUGH THE EQUATORIAL IONOSPHERE. THIS DISTORTION, CAUSED BY IONOSPHERIC IRREGULARITIES, TENDS TO DISRUPT COMMUNICATIONS TO AND FROM SATELLITES FOR HOURS AT A TIME. IN ORDER TO EVALUATE THIS EFFECT ON WIDEBAND SPREAD SPECTRUM COMMUNICATIONS, TESTS ARE PLANNED FOR THE OCTOBER 1976 TIME FRAME ALONG THE MAGNETIC EQUATOR IN THE

VICINITY OF LIMA, PERU AND GUAM. ALL TESTING WILL BE CONDUCTED OVER INTERNATIONAL WATERS EXCEPT THAT PORTION OVER PERU IN THE VICINITY OF (HUANCAYO), ANCON AND JICAMARCA. AT THESE LOCATIONS PERUVIAN SCIENTISTS WILL BE TAKING IONOSPHERIC MEASUREMENTS FROM THE GROUND AT THE SAME TIME AIRCRAFT ARE CONDUCTING AIRBORNE MEASUREMENTS. THIS PROJECT WILL BE CONDUCTED CONCURRENTLY WITH PROJECT 7663 (A PROJECT DESIGNED TO MEASURE ATMOSPHERIC SCINTILLATION FOR WHICH GOP APPROVAL IS PENDING). AFTER COMPLETION OF THESE MISSIONS, DATA FROM BOTH PROJECTS WILL BE CORRELATED WITH THE IONOSPHERIC MODELS OF EACH OTHER'S FLIGHTS AND OF THE PERUVIAN GROUND STATIONS.

2. THE TEST FLIGHTS WILL BE CONDUCTED BY A C-135B (707 TYPE) AIRCRAFT, U.S. AIR FORCE SERIAL NUMBER 61-2662. THE AIRCRAFT IS EQUIPPED FOR IONOSPHERIC RESEARCH INCLUDING THE LES 8/9 UHF/EHF SATELLITE COMMUNICATION SYSTEM WHICH IS ALL OWNED BY THE USAF. THE CREW WILL CONSIST OF SEVEN USAF OFFICERS, FIVE USAF NON-COMMISSIONED OFFICERS, SIX DEPARTMENT OF DEFENSE CIVILIANS AND SEVEN CONTRACTOR PERSONNEL. ALL ARE U.S. CITIZENS. INTERESTED PERUVIAN SCIENTISTS OR DIGNITARIES MAY VISIT THE AIRCRAFT BETWEEN FLIGHTS IF THERE IS NO INTERFERENCE WITH SCHEDULED OPERATIONS.

3. FLIGHTS IN PERU WILL OPERATE FROM JORGE CHAVEZ INTERNATIONAL AIRPORT. FIVE FLIGHTS ARE PLANNED FOR A DURATION OF EIGHT HOURS EACH FOLLOWING ONE OF THE POINT TO POINT ROUTES DESCRIBED BELOW AND RETURN TO JORGE CHAVEZ INTERNATIONAL AIRPORT.
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(A) 11 20S 79 45W
- 12 20S 72 40W
- 11 20S 79 45W
- 12 20S 72 40W
- 11 20S 79 45W
- 12 20S 79 45W
- 12 20S 72 40W

(B) 17 45S 79 10W

- 24 30S 81 50W

- 31 10S 84 55W

- 37 45S 88 15W

4. THE AIRCRAFT WILL ARRIVE AT JORGE CHAVEZ INTERNATIONAL AIRPORT 0400Z/17 OCT 76 AND DEPART 2200Z/30 OCT 76 FOR TAHITI ENROUTE TO GUAM FOR FURTHER TESTING.

5. RADIO FREQUENCY CLEARANCE WILL BE OBTAINED IN ACCORDANCE

WITH AIR FORCE MANUAL 100-31. THE PROJECT IS UNCLASSIFIED AND PROJECT TEST DATA WILL BE FURNISHED TO THE HOST NATION, IF DESIRED. THIS PROJECT SUPPLEMENTS A CONTINUING COOPERATIVE PROJECT (7663) BETWEEN THE AIR FORCE GEOPHYSICS LABORATORIES (AFGL) AND THE INSTITUTE OF GEOPHYSICS OF PERU. THE AFGL WILL CLEAR FLIGHT OPERATIONS WITH THE U.S. DEFENSE ATTACHE, LIMA PRIOR TO ENTERING PERU, IN ACCORDANCE WITH THE USAF FOREIGN CLEARANCE GUIDE.
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Margaret P. Grafeld
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